

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/15216

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁷ C02F3/10, 3/06, A01K63/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ C02F3/10, 3/06, C12N11/00-11/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

| | | | |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1926-1996 | Toroku Jitsuyo Shinan Koho | 1994-2003 |
| Kokai Jitsuyo Shinan Koho | 1971-2003 | Jitsuyo Shinan Toroku Koho | 1996-2003 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | JP 11-221593 A (Tetsushi WATANABE), 17 August, 1999 (17.08.99), Page 3, right column, lines 2 to 5 (Family: none) | 1-3 |
| X | JP 7-8988 A (Ebara Infiruko Kabushiki Kaisha, Ebara Research Co., Ltd.), 13 January, 1995 (13.01.95), Claims (Family: none) | 1, 2 |
| X | JP 2000-246227 A (Kabushiki Kaisha Nichibaku, Kabushiki Kaisha Sansho), 12 September, 2000 (12.09.00), Page 3, left column, lines 40 to 48 (Family: none) | 1-3 |



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier document but published on or after the international filing date
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 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
02 March, 2004 (02.03.04)

Date of mailing of the international search report
16 March, 2004 (16.03.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | JP 2002-86188 A (Miki Riken Kogyo Kabushiki Kaisha), 26 March, 2002 (26.03.02), Page 3, left column, lines 18 to 28 (Family: none) | 1-5 |
| A | JP 5-212279 A (Kyodo Kumiai Ratesuto), 24 August, 1993 (24.08.93), Claims (Family: none) | 1-5 |